

Title (en)  
Storage medium having stored thereon image processing program and image processing apparatus

Title (de)  
Speichermedium mit darauf gespeichertem Bildverarbeitungsprogramm und Bildverarbeitungsgerät

Title (fr)  
Support de stockage stockant un programme de traitement d'images et appareil de traitement d'images

Publication  
**EP 2106831 A3 20120201 (EN)**

Application  
**EP 08011124 A 20080619**

Priority  
JP 2008095401 A 20080401

Abstract (en)  
[origin: EP2106831A2] A virtual plane surface (PL) is divided into a plurality of square regions such that the closer distance to a virtual camera (VP) a square region is located at, the smaller areas the square region is divided into. Distance information (41) indicative of distances of respective vertices composing each of the square regions from the virtual plane surface (PL) is read from the internal main memory (11e). Further, coordinate points of positions, which are distanced from respective vertices, which compose polygonal shape regions included in each of the square regions, by distances indicated by the read distance information in a direction perpendicular to the virtual plane surface (PL), are used as polygon vertices, which define polygons, whereby the polygons corresponding to the curved surface (SF) are generated. From each of the square regions, substantially a common number of polygons are generated. In this manner, appropriate polygon information of the curved surface (SF) which is capable of securing a drawing quality can be generated.

IPC 8 full level  
**G06T 17/20** (2006.01); **A63F 13/00** (2014.01); **A63F 13/52** (2014.01); **G06T 15/00** (2011.01); **G06T 17/05** (2011.01); **G06T 19/00** (2011.01)

CPC (source: EP US)  
**A63F 13/52** (2014.09 - EP US); **A63F 13/95** (2014.09 - EP); **G06T 17/05** (2013.01 - EP US); **G06T 17/20** (2013.01 - EP US);  
**A63F 2300/206** (2013.01 - EP); **A63F 2300/66** (2013.01 - EP); **A63F 2300/6615** (2013.01 - EP US); **G06T 2210/36** (2013.01 - EP US)

Citation (search report)  
• [X1] US 2006132488 A1 20060622 - LIM CHOONG G [KR], et al  
• [X1] EP 1596339 A1 20051116 - MICROSOFT CORP [US]  
• [I] LÁSZLÓ SZIRMAY-KALOS ET AL: "Displacement Mapping on the GPU - State of the Art", COMPUTER GRAPHICS FORUM, WILEY-BLACKWELL PUBLISHING LTD, GB, vol. 25, no. 3, 1 January 2006 (2006-01-01), pages 1 - 24, XP002631003, ISSN: 0167-7055  
• [X1] RENATO PAJAROLA ET AL: "Survey of semi-regular multiresolution models for interactive terrain rendering", THE VISUAL COMPUTER ; INTERNATIONAL JOURNAL OF COMPUTER GRAPHICS, SPRINGER, BERLIN, DE, vol. 23, no. 8, 13 June 2007 (2007-06-13), pages 583 - 605, XP019540971, ISSN: 1432-2315, DOI: 10.1007/S00371-007-0163-2  
• [X1] BO-YIN LI ET AL: "Visualization for HPC data - large terrain model", HIGH PERFORMANCE COMPUTING AND GRID IN ASIA PACIFIC REGION, 2004. PROC EEDINGS. SEVENTH INTERNATIONAL CONFERENCE ON TOKYO, JAPAN 20-22 JULY 2004, PISCATAWAY, NJ, USA,IEEE, 20 July 2004 (2004-07-20), pages 280 - 284, XP010716662, ISBN: 978-0-7695-2138-1, DOI: 10.1109/HPCASIA.2004.1324046

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Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA MK RS

DOCDB simple family (publication)  
**EP 2106831 A2 20091007**; **EP 2106831 A3 20120201**; JP 2009251675 A 20091029; JP 5078712 B2 20121121; US 2009244063 A1 20091001; US 8259107 B2 20120904

DOCDB simple family (application)  
**EP 08011124 A 20080619**; JP 2008095401 A 20080401; US 21365808 A 20080623